LABTRON

Water Purification System
LWPS-A11

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Water Purification System LWPS-A11

Water Purification System LWPS-A11 mainly consists of two stages of water quality and its feed water is tap water. It follows type III and type I systems. Features pretreatment system, RO system, ultrapure water system conveying unit and control system. Fully automatic control over the whole process, e.g. automatic water preparation, when water tank is full, automatically stop the system and cut off the power and water. Built-in RO membrane timing automatic flush procedures, and manual RO membrane cleaning button is available.

Features

- Millipore BioPak UF membrane to reduce the pyrogen, RNase, DNase
- Ultra-purification system: Millipore ion exchange resin cartridge and special flow design, high ultra-purify efficiency.
- Effectively remove the trace ions in water; guarantee the stability of water quality
- Micro filtration: Making the particles content (larger than 0.22 μm) is <1 / ml and bacteria less than 0.1 CFU / ml
- Built-in manual water cycling program and ultrapure water auto-cycle program to keep the water quality of ultrapure water
- Water resistance on-line monitoring, realizing man-machine conversation
- System can be installed on the lab bench
- 30 L PE water reservoir with vent valve

Applications

Used for Medical device injection to human body, DNA/RHA preparation, DNA testing, HPLC (test and analysis of amino acid, penicillin; Organic ingredients), GCMS, ICP, IC, gas chromatography, AAS etc.

Specifications

Model No	LWPS-A11
Water quality	Two stage (Type III and type I)
Feed water	Tap water TDS ≤ 400 ppm, Water temperature: 5 - 40 °C
Conductivity	<5 μs/cm@25 °C
Resistivity	18.25 MΩ.cm @ 25 °C
TOC	< 5 ppb
Bacteria	< 0.1 cfu/ml
Endotoxin	< 0.001 EU / ml
Particle	(> 0.22 μm) <1 / ml
Absorbance	(254nm,1cm optical distance) < 0.001 EU/ml
Reactive Silica (SiO2)	< 0.01 ppm
RNases	< 0.01 ng/ml
DNases	< 4 pg/μl
Temperature	5 °C ~ 40 °C
Humidity	10 % ~ 80 %
Water production rate	Type 3 water ≥10L/h Type 1 water flow rate: 1-1.5L/min
Micro filtration	Millipore Millipak 0.22 μm membrane or hollowed fiber membrane filter
Power supply	230 V/50 Hz 150 W
Main body Dimension (L× W × H)	340 × 550 × 530 mm (bench type)

Flow schematic

Tap water→ 1st stage PP filter (5micron) → 2nd activated carbon filter→3rd softener→ 4th stage PP filter(1micron) → Stage I booster pump→ Stage I reverse osmosis membrane→ Stage II booster pump → Stage II reverse osmosis membrane→ Pure water tank→ pure Water conveying pump→ Type III pure water outlet→ UV lamp→ Ultra-purification package → Ultra-purification cartridge → UF→ micro-filter→ Type I ultrapure water outlet

Consumables List for 1 year LWPS-A11

No.	Name and Type	Span-life	Quantity
1	1st PP filter	2~3 months	4
2	2nd activated carbon filter	6~12months	2
3	3rd water softener filter	6~12months	2
4	4th stage PP filter	10~12months	2